

Matéo Le Bras Sancho

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EDUCATION

Master's Degree - Expert in Computer Architecture

Project-based pedagogy: C, C++, Unix systems, networking, full-stack web

42 Paris

2024 - 2027

EXPERIENCE

Software / AI Engineer Intern

nao Labs (YC X25)

Oct. 2025 - March 2026

Paris, France

- Development of an **AI-powered IDE** tailored for data teams
- Engineered and shipped the end-to-end **MCP integration** (Model Context Protocol), along with 2 custom MCP servers for Metabase and Fivetran
- Reduced MCP-related token consumption by **90%** by implementing a "Tool Search Tool" pattern (dynamic MCP server selection) combined with server output optimization
- Built a multi-agent system in **TypeScript** with specialized sub-agents, significantly improving task execution speed within the IDE
- Contributed to nao (1.2k+ GitHub stars), an open-source "Chat with your Data" tool: featuring an AI agent built with the **AI SDK**, capable of answering complex business questions and generating visualizations on the fly
- Engineered integrations with collaboration messaging tools (Slack, Microsoft Teams, WhatsApp, Telegram) with the **Chat SDK**, allowing users to interact with their nao agent directly from their daily work channels

PROJECTS

ft_transcendence | *TypeScript, Node.js, Fastify, Prisma ORM, MySQL, Docker*

- Built a **full-stack project** centered around the Pong game
- Set up databases using Prisma ORM
- Implemented a Single Page Application (SPA) following the MVC architecture (Model, View, Controller)
- Project **deployed with Docker**

Presto | *Next.js, Docker, Prisma ORM, OpenClaw*

- Designed a **SaaS platform** allowing companies to "hire" AI employees specialized by role (secretarial work, etc.). Each employee is packaged into a custom Docker image bundling an OpenClaw instance, role-specific skills and a dedicated knowledge base
- Implemented backend orchestration: dynamic instantiation of isolated containers per employee on a VPS, with persistent volumes and a prepaid credit system managed via Stripe and Prisma ORM

Multilayer Perceptron | *Machine Learning, Python, NumPy, Pandas, Matplotlib*

- Implemented from scratch a **multi-layer perceptron** for binary classification of breast cancer on the Wisconsin dataset, including forward propagation, backpropagation and weight updates via gradient descent

Learn2Slither | *Reinforcement Learning, Python, PyTorch*

- Implemented two Reinforcement Learning algorithms to train an agent to play Snake: **tabular Q-Learning** (Bellman equation, Epsilon Greedy) and **Deep Q-Network** (PyTorch)

TECHNICAL SKILLS

Languages: TypeScript, Python, C/C++, JavaScript, SQL (PostgreSQL, MySQL)

Frameworks: React, Next.js, Node.js, Fastify, FastAPI

AI / ML: Vercel AI SDK, Model Context Protocol (MCP), LangGraph, PyTorch, NumPy, Pandas

Tools: Docker, Git, Linux, Prisma ORM, VS Code

Spoken Languages: French (native), English (B2-C1, Cambridge certified)